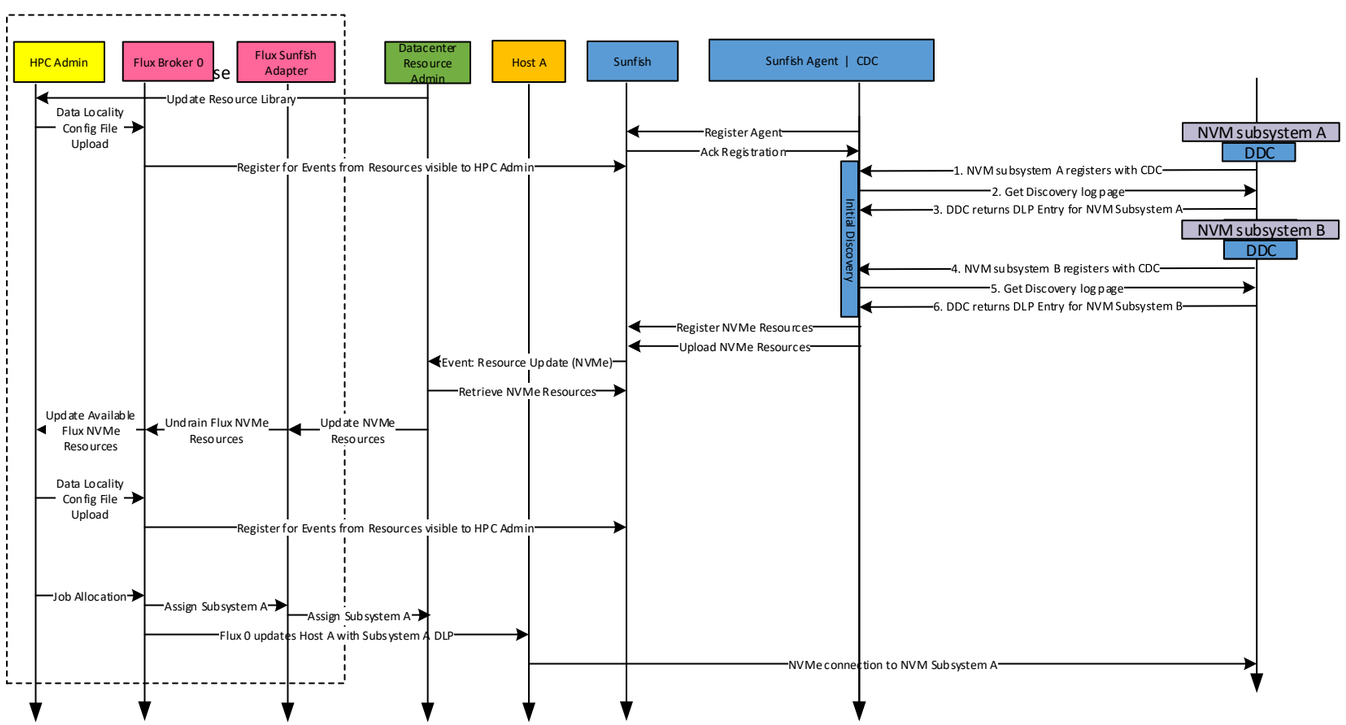
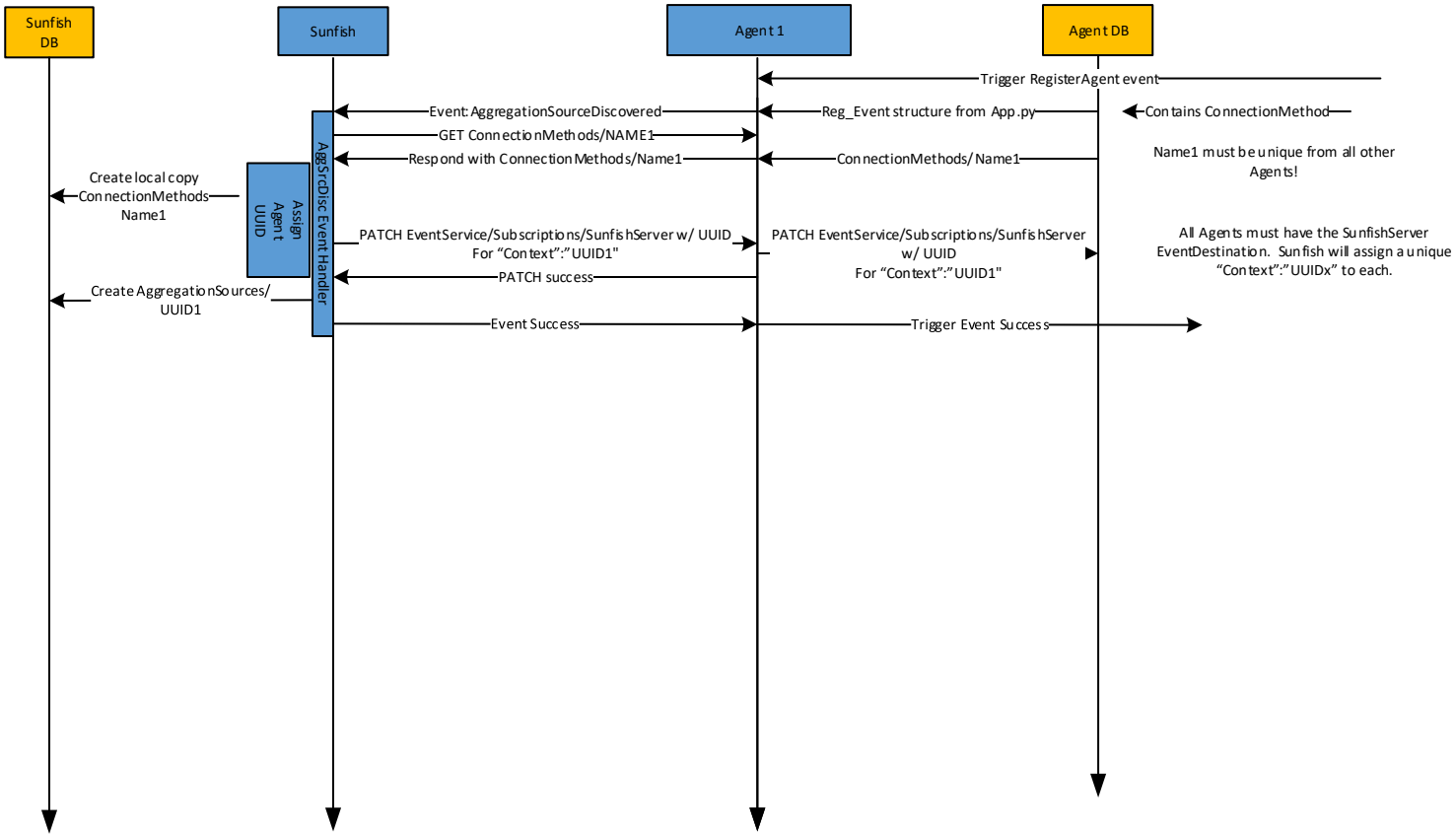

HPC Admin
Flux Broker 0
Flux Sunfish Adapter
Datacenter Resource Admin
Host A
Sunfish
Sunfish Agent | CDC
Update Resource Library
Data Locality Config File Upload
Register Agent
Ack Registration
NVM subsystem A
DDC
Register for Events from Resources visible to HPC Admin
1. NVM subsystem A registers with CDC
2. Get Discovery log page
3. DDC returns DLP Entry for NVM Subsystem A
Initial Discovery
NVM subsystem B
DDC
4. NVM subsystem B registers with CDC
5. Get Discovery log page
6. DDC returns DLP Entry for NVM Subsystem B
Register NVMe Resources
Upload NVMe Resources
Event: Resource Update (NVMe)
Retrieve NVMe Resources
Update Available Flux NVMe Resources
Undrain Flux NVMe Resources
Update NVMe Resources
Data Locality Config File Upload
Register for Events from Resources visible to HPC Admin
Job Allocation
Assign Subsystem A
Assign Subsystem A
Flux 0 updates Host A with Subsystem A DLP
NVMe connection to NVM Subsystem A


Sunfish DB
Sunfish
Agent 1
Agent DB
Trigger RegisterAgent event
Event: AggregationSourceDiscovered
Reg_Event structure from App.py
Contains ConnectionMethod
GET ConnectionMethods/NAME1
Respond with ConnectionMethods/Name1
ConnectionMethods/Name1
Name1 must be unique from all other Agents!
Create local copy ConnectionMethods Name1
Assign Agent UUID
AggSrcDisc Event Handler
PATCH EventService/Subscriptions/SunfishServer w/ UUID For "Context":"UUID1"
PATCH EventService/Subscriptions/SunfishServer w/ UUID For "Context":"UUID1"
All Agents must have the SunfishServer EventDestination. Sunfish will assign a unique "Context":"UUIDx" to each.
PATCH success
Create AggregationSources/ UUID1
Event Success
Trigger Event Success